

PROVISIONAL SUN-SPOT RELATIVE NUMBERS, AUGUST, 1931

[Data furnished through the courtesy of Prof. W. Brunner, Eidgen. Sternwarte, Zurich Switzerland]
(Dependent alone on observations at Zurich and its station at Arosa)

August, 1931	Relative numbers	August, 1931	Relative numbers	August, 1931	Relative numbers
1-----	aa 23	11-----	8	21-----	10
2-----	Mecc 35	12-----	0	22-----	0
3-----	34	13-----	8	23-----	0
4-----	28	14-----	0	24-----	0
5-----	28	15-----	0	25-----	0
6-----	19	16-----	0	26-----	Mc 8
7-----	8	17-----	Mc 11	27-----	Mc d 26
8-----	0	18-----	14	28-----	36
9-----	0	19-----	14	29-----	25
10-----	0	20-----	10	30-----	24
				31-----	30

Mean, 29 days=13.8.

a= Passage of an average-sized group through the central meridian.
b= Passage of a large group or spot through the central meridian.
c= New formation of a center of activity: E, on the eastern part of the sun's disk; W, on the western part; M, in the central zone.
d= Entrance of a large or average-sized center of activity on the east limb.

LATE REPORTS

PROVISIONAL SUN-SPOT RELATIVE NUMBERS FOR JANUARY, 1931

[Data furnished through the courtesy of Prof. W. Brunner, University of Zurich, Switzerland]
(Dependent alone on observations at Zurich and its station at Arosa)

January, 1931	Relative numbers	January, 1931	Relative numbers	January, 1931	Relative numbers
1-----	0	11-----	10	21-----	24
2-----	7	12-----	9	22-----	22
3-----	0	13-----	Mc 16	23-----	21
4-----	d	14-----	41	24-----	0
5-----	18	15-----	43	25-----	20
6-----	11	16-----	27	26-----	0
7-----	11	17-----	Ec	27-----	8
8-----	12	18-----	22	28-----	0
9-----	14	19-----	0	29-----	7
10-----	a 11	20-----	a 25	30-----	0
				31-----	0

Mean: 25 days=15.2.

a= Passage of an average-sized group through the central meridian.
b= Passage of a large group or spot through the central meridian.
c= New formation of a large or average-sized center of activity: E, on the eastern part of the sun's disk; W, on the western part; M, in the central zone.
d= Entrance of a large or average-sized center of activity on the east limb.

PROVISIONAL SUN-SPOT RELATIVE NUMBERS FOR MAY, 1931

[Data furnished through the courtesy of Prof. W. Brunner, University of Zurich, Switzerland]

(Dependent alone on observations at Zurich and its station at Arosa)

May, 1931	Relative numbers	May, 1931	Relative numbers	May, 1931	Relative numbers
1-----	17	11-----	33	21-----	Ec 30
2-----	8	12-----	26	22-----	26
3-----	7	13-----	a 32	23-----	35
4-----	8	14-----	17	24-----	32
5-----	8	15-----	Ec 36	25-----	31
6-----	17	16-----	37	26-----	Wc 35
7-----	d 17	17-----	29	27-----	35
8-----	26	18-----	0	28-----	20
9-----	Mc 20	19-----	34	29-----	19
10-----	33	20-----	b	30-----	d 20
				31-----	11?

Mean: 29 days=24.1.

a= Passage of an average-sized group through the central meridian.
b= Passage of a large group or spot through the central meridian.
c= New formation of a center of activity: E, on the eastern part of the sun's disk; W, on the western part; M, in the central zone.
d= Entrance of a large or average-sized center of activity on the east limb.

PROVISIONAL SUN-SPOT RELATIVE NUMBERS FOR JUNE, 1931

[Data furnished through the courtesy of Prof. W. Brunner, University of Zurich, Switzerland]

(Dependent alone on observations at Zurich and its station at Arosa)

June, 1931	Relative numbers	June, 1931	Relative numbers	June, 1931	Relative numbers
1-----	13	11-----	20	21-----	0
2-----	Ec 28	12-----	14	22-----	7
3-----	34	13-----	0	23-----	0
4-----	36	14-----	Wc 10	24-----	0
5-----	a 30	15-----	0	25-----	0
6-----	36	16-----	0	26-----	0
7-----	32	17-----	0	27-----	Ec 8
8-----	Mc 44	18-----	7	28-----	10
9-----	35	19-----	0	29-----	d 25
10-----	47	20-----	0	30-----	23

Mean: 30 days=15.3.

a= Passage of an average-sized group through the central meridian.
b= Passage of a large group or spot through the central meridian.
c= New formation of a center of activity: E, on the eastern part of the sun's disk; W, on the western part; M, in the central zone.
d= Entrance of a large or average-sized center of activity on the east limb.